

## About the dataset

Data was collected and structured by the Fraud team. This dataset consists of payments from various customers made in different periods and amounts. The feature columns include:

- Step: This feature represents the month from the start of the simulation. The steps represent four months that the simulation ran virtually.
  - 0: May
  - 1: June
  - 2: July
  - 3: August
- Customer: Customer ID
- Age: Categorised age
  - 0.0: <= 18
  - 1.0: 19 - 25
  - 2.0: 26 - 35
  - 3.0: 36 - 45
  - 4.0: 46 - 55
  - 5.0: 56 - 65
- Gender: Gender of the customer
  - F: Female
  - M: Male
- PostcodeOrigin: The postcode of origin/source.
- Merchant: The merchant's ID.
- Category: Category of the purchase.
- Amount: Amount of the purchase.
- Fraud: Target variable that shows if the transaction is fraudulent - 1 or non-fraudulent - 0.

# Completed task

## Count by category

category	count	percent
es_transportation'	181	90.500000
es_health'	10	5.000000
es_food'	3	1.500000
es_wellnessandbeauty'	1	0.500000
es_tech'	1	0.500000
es_sportsandtoys'	1	0.500000
es_otherservices'	1	0.500000
es_hotelservices'	1	0.500000
es_barsandrestaurants'	1	0.500000

## Fraudulent Transactions:

category	count
es_food'	1
es_health'	5
es_sportsandtoys'	1
es_transportation'	84
es_wellnessandbeauty'	1

## Count by age

age	count
0	13
1	82
2	49
3	22
4	26
5	8

Count by merchant

merchant	count	percent
M348934600'	154	77.000000
M1823072687'	27	13.500000
M1053599405'	4	2.000000
M85975013'	3	1.500000
M692898500'	3	1.500000
M480139044'	2	1.000000
M840466850'	1	0.500000
M50039827'	1	0.500000
M348875670'	1	0.500000
M1888755466'	1	0.500000

Fraud detected by age

age	count
0	8
1	38
2	24
3	8
4	12
5	2

Fraud detected by category

category	count
es_food'	1
es_health'	5
es_sportsandtoys'	1
es_transportation'	84
es_wellnessandbeauty'	1

Fraud detected by step (Month)

step	count
0	19
1	25
2	27
3	21

Fraud detected by gender

gender	count
F	52
M	40

Gender that performed the most fraudulent specific activities

gender	category	count
F	es_food	1
F	es_health	1
F	es_sportsandtoys	1
F	es_transportation	49
M	es_health	4
M	es_transportation	35
M	es_wellnessandbeauty	1